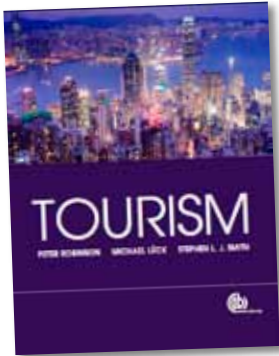




## Books

### New book for tourism students



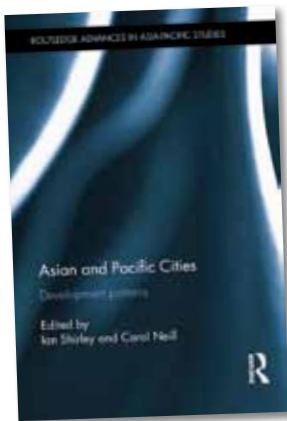
AUT's Michael Lück has used his tourism expertise once again to contribute to an international book aimed to help students.

Lück, along with academics from the UK and Canada have penned *Tourism*, a book covering the fundamental topics in tourism studies for undergraduate students.

A number of AUT colleagues, postgraduate students and alumni have also contributed case studies and job profiles.

The book introduces tourism as an academic subject and guides students through their early years of study. Postgraduate students will also find it a valuable refresher to general tourism topics. The text is presented to reflect current teaching methods and provide an up-to-date perspective in an accessible way. It comes with an array of online material, such as multiple choice questions and PowerPoint slides for each chapter.

He says one of the things he loves most about this work is how appealing it will be for students, using a clean, clear layout and great colours.



Edited by Professor Ian Shirley and Dr Carol Neill

### Asian and Pacific Cities

The cities of Asia and the Pacific are at the epicentre of development in what is arguably the most populous, culturally distinctive and economically powerful region in the world.

By tracking the economic and social trends of their own cities, contributors have identified the 'drivers' of development within the metropolitan centres of the region. The sixteen cities profiled include Tokyo, Shanghai, Manila, Jakarta, Bangkok, Singapore and Auckland.

What sets this research apart from previous development studies is its

methodology. Rather than studying development from an external perspective, each chapter draws on the work of a local research team telling the inside story of one city's development.

As a whole *Asian and Pacific Cities* provides a fascinating view of 16 cities and as a result, an insight into the national development of 15 countries.



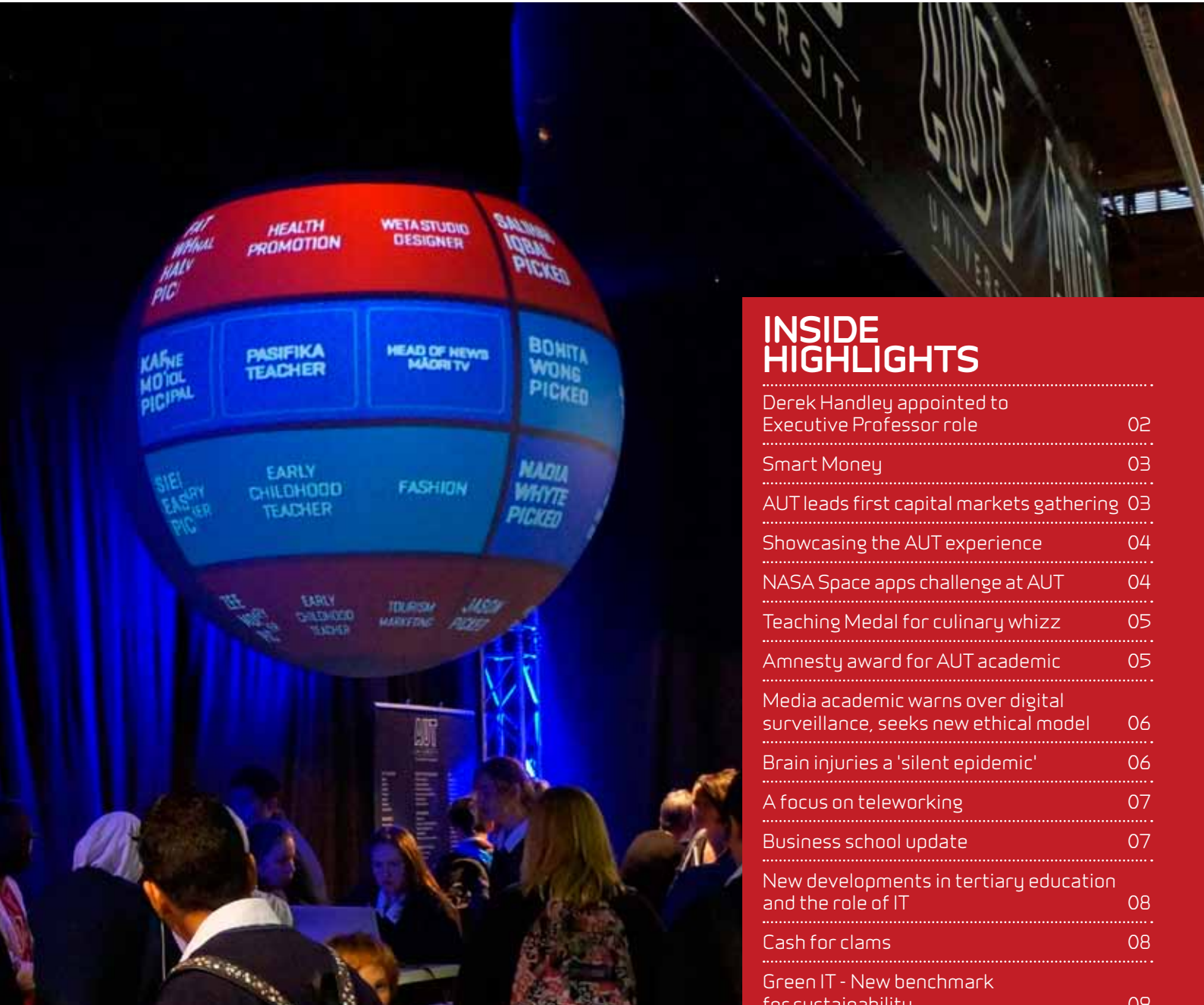
### "A building that puts students first"

AUT's Sir Paul Reeves Building has won its first award in the Civic category of the 2013 Interior Awards. The judges had high praises for this large-scale project, "This is a best-practice example of what educational facilities can be: student-centred, immersive and flexible".



# INSIDE | AUT

NEWS FROM AUT UNIVERSITY | TE WĀNANGA ARONUI O TĀMAKI MAKAU RAU



## Career Expo

AUT's stand at the annual Careers Expo was arguably the most popular and innovative, with plenty of interest from a range of people.

Prospective students entered their details into computers, where they were then asked to choose three different careers. Their name and chosen professions were then beamed across the globe above, which also entered them in the draw to win an iPad. AUT Relationship Manager Andrew McLean commented that "it tied nicely to the theme of being the University for the Changing World, giving students the opportunity to observe the breadth of courses that we offer."

## INSIDE HIGHLIGHTS

Derek Handley appointed to Executive Professor role	02
Smart Money	03
AUT leads first capital markets gathering	03
Showcasing the AUT experience	04
NASA Space apps challenge at AUT	04
Teaching Medal for culinary whizz	05
Amnesty award for AUT academic	05
Media academic warns over digital surveillance, seeks new ethical model	06
Brain injuries a 'silent epidemic'	06
A focus on teleworking	07
Business school update	07
New developments in tertiary education and the role of IT	08
Cash for clams	08
Green IT - New benchmark for sustainability	09
AUT hosts top international artists at Triennial	10
Water harvesting at AUT	10
Axis Award for Ad Grads	11
Music, art and beer	11
Institute for Applied Ecology NZ relaunches	11
Books	12





## VC's Letter

From 1 to 4 July, AUT hosted the 36th annual HERDSA (Higher Education Research and Development

Society of Australasia) Conference in the Sir Paul Reeves Building. HERDSA is a very well-established and well-regarded international scholarly society committed to the advancement of higher and tertiary education. It promotes the development of, and research on, higher education policy, practice and the study of teaching and learning. This was the first time AUT has hosted this conference, and with over 350 attendees from around the world, it was a valuable opportunity to see how well the Sir Paul Reeves Building suited this purpose.

The theme for this year's conference was 'The Place of Teaching and Learning', and this was remarkably appropriate

for both the venue – with its marvellous places and spaces for teaching learning – and for AUT as host university. In a world of MOOCS, You Tube and Google, one of the issues for universities is the balance of physical space with cyber-space and question of the kinds of physical spaces needed for the future of blended learning and flipped teaching.

However, the conference theme betrays a deeper uncertainty for the university world than that of its physical locations.

With the rise of university rankings, which give scant regard to teaching and learning, we have an identification of the university as first and foremost a research institution. In fact, based on the Shanghai Jiao Tong ARWU ranking, the progenitor of world rankings, the university is exclusively a place of research.

So what of our unifying mission of education, which to the outsider is surely the purpose of the university? What is its place in our structures, our academic work designs, our academic promotion schemes, and our spending priorities as

institutions of higher education?

Indicative research suggests that the greatest economic contribution from university knowledge is not what we get from university research outputs. Instead, university knowledge makes its greatest contribution through what is sent out in the heads and hearts of its graduates and is then expressed, applied and built upon through their careers and contributions to their communities.

Moreover, the university's impact in social mobility, social cohesion, and social development is mediated primarily through the opportunity for the transformative experience of higher learning that we offer students.

This is not to deny the critical importance of research in university life and in higher education itself, but rather it is to agree with the reinvigoration of the place and mission of teaching and learning as the priority in terms of the social and economic contribution of higher education and the mission of the university.

Derek McCormack



Derek Handley and Geoff Perry

## Derek Handley appointed to Executive Professor role

Derek Handley, one of New Zealand's most well-known entrepreneurs, has taken up an Adjunct Executive Professorship at AUT.

As Executive Professor, Derek Handley will work with Dr Geoff Perry, Dean of AUT's Business School.

Handley is CEO of The B Team, and Chairman of the recently launched mobile advertising company Snakk and Derek McCormack, AUT's Vice Chancellor, sees his Executive Professorship as offering great benefits to AUT.

"Derek's contribution to business and innovation is inspirational and his insights will be invaluable to our students' thinking about enterprises or working in business. He is able to provide both a New Zealand and a global perspective. His reputation in international business and entrepreneurship brings much to the University" says Derek McCormack.

Derek Handley worked alongside Sir Richard Branson and Jochen Zeitz to start the B Team, which is a global leadership collective aimed at making business work better for people and the planet in order to meet the challenges of the 21st century. He is also a Sir Peter Blake Trust Leader, KEA World Class New Zealander and was the Ernst & Young 'Young Entrepreneur of the Year' in 2009. He co-founded global mobile marketing company The Hyperfactory, selling it to media giant Meredith Corporation in 2010. He has founded and helped build multiple international start-up companies including Snakk Media which listed on the NZ Stock Exchange in 2013.



Derek Handley



Derek Handley - giving his public address



## Smart Money

Most people don't know enough about money to make smart financial decisions, so what is the best way to improve their knowledge?

Dr Bart Frijns, the founding director of AUT's Auckland Centre for Financial Research, says studies worldwide conclude that poor financial literacy exists in every country and across all socio-economic strata, but a positive relationship has been established between financial literacy and smarter decision making. Although that relationship has typically been interpreted in a causal way (i.e. if we provide more financial literacy education, people will make smarter decisions), it had never been ascertained whether the causality actually runs in this way.

"Is financial literacy an input or an output?" he asks. "Governments and industry make huge efforts to improve the financial literacy of their population, but no-one knows for sure if such measures are effective."

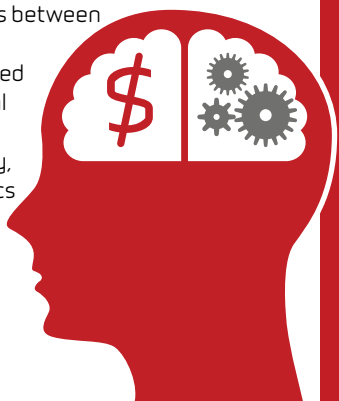
Frijns, together with Drs. Gilbert and Tourani-Rad of the Auckland Centre for Financial Research, conducted a study around this question of causality, looking at New Zealand tertiary students in relation to interest free loans and Kiwisaver; two uniquely Kiwi financial offerings. "We used them to assess whether literacy was driving decision making but we found it was the other way around. It was their experience in decision making which made them more literate."

Frijns says this suggests that standard education programmes e.g. how do interest rates work, how do you invest etc. don't work. "If you want to make people smarter about money you need to get in at the point where they are engaged in the experience of decision-making whether it is real or role playing."

"So if you want to teach children about money, get them to set up a bank account or do dummy runs of investing in stocks. A general programme on savings won't be very useful, but if it is delivered at the time when people need to make a financial decision then it is effective, just-in-time education."

The Auckland Centre for Financial Research aims to raise the standard of applied financial research in New Zealand and forge links between the financial industry and academics. The Centre hosted its first New Zealand Capital Markets Symposium on 31 May 2013, bringing industry, policy makers and academics together to discuss issues related to the New Zealand Capital Markets.

For more information about the Auckland Centre for Financial Research visit <http://www.acfr.aut.ac.nz/>



## AUT leads first capital markets gathering

AUT Business School's Auckland Centre for Financial Research brought leading New Zealand finance practitioners, policymakers, and academics together for the first time on 31 May at the 2013 Capital Markets Symposium.

Researchers from AUT, Massey University, University of Auckland and University of Waikato presented new studies into New Zealand's capital markets, which were then discussed by an industry participant or policymaker.

Professor Bart Frijns, Director of the Auckland Centre for Financial Research at AUT University, said: "The development of vibrant and effective capital markets is of interest to the finance industry, policymakers and academic researchers, yet discussion among the three groups seems to be limited. We wanted to bring all sides closer to engage in discussions that could help decision-makers on a wide range of

fronts including assessing legislation, developing financial models and improving advice to investors."

The keynote speaker was Tim Bennett, CEO of the NZX. Panel members were Sue Brown, Head of Primary Regulatory Operations of the Financial Markets Authority; Scott St John, Managing Director and CEO of First NZ Capital; and Neil Williams, Chief Investment Advisor and Head of Strategic Tilting of the New Zealand Superannuation Fund.

Held at AUT's city campus, the symposium was well-attended by industry professionals. Other AUT organisers were Professor Alireza Tournani-Rad and Dr Aaron Gilbert.



Prof Bart Frijns



# NASA Space Apps Challenge at AUT

AUT hosted New Zealand's first local NASA Space Apps Challenge in April. Participants joined more than 9,000 people taking part in the world-wide challenge.

The Challenge is an annual mass collaboration focused on space exploration that takes place over 48-hours in cities around the world. It aims to produce open-source solutions to challenges identified by NASA as essential to improving life on Earth and in Space.

The Auckland event was jointly sponsored by AUT and the US Embassy, and the four teams competing were made up of undergraduate and postgraduate students from AUT and the University of Auckland.

After the 48 hour challenge, each team presented its solution to the judges:

US Ambassador, David Huebner; CEO of New Zealand ICT Group, Candace Kinser; and Microsoft New Zealand Tertiary Education Sector Manager, Matt Bostwick.

The winning team created a mobile phone application that allows users to track the position of the International Space Station (ISS) and to share images of the ISS via social networks like Twitter.

The students in the winning team are all studying at AUT's School

of Computing and Mathematical Sciences: Boris Féron, Eleanor Da Fonseca, Harrison Black and Weixiong Cen. They were mentored by lecturers including Dr Andrew Ensor and Professor Sergei Gulyaev during the Challenge

The runners up were a team of nine product design students who used 3D printing to design a replacement wheel for the Mars Rover.

The top two local teams presented their solutions digitally to NASA's international judging panel in May.

3D printed Mars Rover wheel created as part of the NASA Space Apps Challenge



## Showcasing the AUT experience

The stories of academic staff and students took centre stage at AUT's new-look careers advisors' update day in April.

106 secondary schools careers advisors attended the 'Take 5' event based in AUT's new Sir Paul Reeves Building.

Five well-known AUT lecturers, five senior students, and five students just starting out at AUT spoke about their experiences. As well as highlighting some of AUT's lesser-known programmes, the speakers explained how the university supports students as they transition from school to university.

"Many of the speakers, both students and academics, emphasised what a difference a passionate teacher or lecturer had made to their career and educational path. This emerged, unintentionally, as a strong theme for the day," says Sue Heggie, AUT's Director of School Partnerships.

At 'Take 5', careers advisors also had the chance to talk to academics from the five faculties and take tours of the City Campus. Visiting unique facilities like the Textile Design Laboratory gave them a first-hand sense of how the campus is laid out and what sorts of facilities are on offer. As mementos of the day each advisor took home a silk scarf made by textile design students, a pair of hi-tech 'text-enabled' merino gloves or a set of 3D printed coasters.

The feedback on 'Take 5' has been overwhelmingly positive says Heggie: "The advisors were inspired by the passion that came through in the staff and student talks. They have told me they went away with a much better sense of what AUT has to offer, both academically and in terms of student support."



The winning team (absent: Harrison Black) with NASA Space Apps Challenge judges



# Teaching Medal for Culinary Whizz

For the first time a New Zealander has won the Medal for Excellence in Culinary Arts from City and Guilds London, and that New Zealander is from AUT.

The Medal of Excellence is awarded to lecturers who demonstrate exceptional talent and dedication to teaching.

Senior lecturer Alan Brown from the School of Hospitality and Tourism won the medal earlier this year after being nominated by colleagues.

Alan says he had no idea about the nomination and was thrilled when he heard he had won, especially considering this is an international honour.

His career started at AUT (then ATI) where he studied culinary arts, after which he moved to the UK to continue studying and working. During an OE lasting 18 years, Alan worked in hotels, a Michelin star restaurant and corporate fine dining.

At The Ritz Hotel in London, Alan started

a step above an apprentice working his way up to Chef de Poissonier, running a team of six. After his time at The Ritz, Brown worked as Head Chef at the Milton Sandford Restaurant earning a Michelin star.

He found his way into teaching by accident upon his return to New Zealand while catching up with Ted Bryant, then Head of the School of Hotel and Restaurant Studies at ATI.

"I believe in fate and when he and I were talking it came up that the interviews for production kitchen chefs were the next day."

He has been at AUT ever since, celebrating 20 years this year.

"The students are the best part," he says. "They keep you young and honest and they test you."

These students genuinely appreciate Alan too, with many keeping in touch and asking for his advice, even while running their own restaurants and cafes.

Along with his work at AUT, Alan has been a culinary judge for many years, working with Monteiths, Beef and Lamb New Zealand and Venison New Zealand, and coaches chefs in culinary competitions.

John Kelly, Head of AUT's Department of Culinary Arts, nominated Alan for the award.

Kelly says, "Alan is held with high regard when it comes to his profession and skills. He provides students with a tremendous amount of advice and guidance, and acts as a mentor not only to learners but also to his colleagues. This is an achievement that many other culinary educators will hopefully aspire to in years to come".



## Amnesty award for AUT academic

Tireless human rights work has seen AUT's Professor Marilyn Waring receive the Amnesty International Aotearoa NZ Human Rights Defender Award for 2013.

The award honours one person or group's remarkable contribution to the protection, defence and promotion of human rights, celebrates some of the finest attributes Amnesty International believe it is possible to have. It recognises those who promote and protect human rights in New Zealand and the Pacific through peaceful and non-violent means.

"This is such an honour for me. I have very long memories of Amnesty in my years of activism," said Waring after receiving the award.

The calibre of the other nominees meant Waring was surprised by her win.

"It was very unexpected. I feel very honoured... The other nominees are hugely effective human rights workers and people whose work I really honour."

Amnesty International's executive director Grant Bayldon presented the

award and made a speech detailing Waring's work in New Zealand and internationally. He made special mention of her focus on others.

"When judging the award we especially noted the way you [Waring] have worked to bring on the next generation of human rights defenders, proof that right back to the early days it's never been about you but about the lives of others.

"NZ and the region are in better shape because of your tireless work."

Although hard to decide, two of her biggest achievements and passions when it comes to human rights were gaining legal and economic recognition for those who act as home-based care workers 24/7 for family members, and marriage equality.

"You never do it on your own [though]. You do it with a community of people. I



played a very small part. It is the efforts of 100s and 1000s of people. I think of myself as a cog in the wheel of human rights. We all are, unless you are Nelson Mandela."



# Media academic warns over digital surveillance, seeks new ethical model

A leading journalism academic has voiced concern at the high levels of digital surveillance facing journalists today and has urged them to adopt a new ethical model of reporting for social good.

Dr Mark Pearson, Professor of Journalism and Social Media at Griffith University in Australia and the Australian correspondent for Reporters Without Borders, spoke at the inaugural UNESCO World Press Freedom Day 2013 lecture, organised and hosted by AUT's Pacific Media Centre and School of Communication Studies.

The lack of press freedom in the Asia-Pacific region was well documented with media he said.

For example in Malaysia, Singapore, Brunei and Fiji, journalists need government licences to operate, and journalists in Malaysia are facing 53-year-old "internal security" laws under which they could be detained for long periods for "prejudicing national security", Dr Pearson said.

But Professor Pearson said his concerns were not limited to these cases, and that his major worry was the "ever-increasing government regulation of media and social media everywhere", including the anti-terror laws introduced all over the world since 9/11,

modelled on the US Patriot Act.

These laws "typically give intelligence agencies unprecedented powers to monitor the communications of all citizens. There is also an inordinate level of surveillance, logging and tracking technologies in use in the private sector – often held in computer clouds or multinational corporate servers in jurisdictions subject to search and seizure powers of foreign governments".

This had disturbing implications for journalists' protection of their confidential sources, especially if these sources were government or corporate "whistleblowers", Dr Pearson added.

Investigative reporters today potentially had to contend with geo-location tracking of their phones and vehicles, toll point capture of their motorway entry and exit, easily accessible phone, email and social media records, CCTV in private and public places, and facial recognition in other people's images, perhaps posted to Facebook.

Investigative reporting was also under

threat as a result of budget cuts by newspapers.

"Investigative reporting calling governments to account does not come cheaply. It involves weeks of groundwork by senior journalists, photojournalists and videojournalists and funding of their salaries, travel expenses and equipment.

"It typically requires further investment in the time of expert editors and production staff. But the former multinational newspaper companies that once funded this investigative enterprise have been shedding staff, rationalising operations and slashing budgets."

Cost-cutting measures in Australian, New Zealand and North American newsrooms meant that breaking news in Pacific Island nations was more likely to be covered 'on the cheap' by so-called 'parachute journalists' who fly in and out to report in a superficial way Dr Pearson added.

Bloggers and citizen journalists were equally at risk of being repressed because they are often not covered by the shield laws protecting journalists from being forced to reveal their confidential sources in court.

## Brain injuries a 'silent epidemic'

The incidence of traumatic brain injuries (TBI) in New Zealand is at epidemic levels according to the lead author of a study published in international medical journal *The Lancet Neurology*.

The BIONIC (Brain Injury Outcomes New Zealand in the Community) study, led by Professor Valery Feigin of AUT University's National Institute of Stroke and Applied Neuroscience, found that traumatic brain injury rates are six-times higher than previously thought (790 injuries annually per 100,000 people), recasting TBI as an immediate public health concern.

Stimulating further epidemiological research into the incidence and outcomes of TBI has been an important outcome of Feigin's work.

"This is one of the most significant medical research projects carried out at AUT in terms of funding and impact. As a result, AUT has been recognised as one of the leading academic centres in TBI research in New Zealand and internationally," says Feigin.

Previous statistics have grossly underestimated the extent of TBI in New Zealand, says Feigin. "The true burden of TBI in New Zealand is far greater than anticipated and new strategies are urgently needed to reverse this silent epidemic."

With 36,000 new traumatic brain injuries happening in New Zealand every year, Feigin says the next step for researchers is to look for better ways to prevent and treat them.

"Many people don't realise they have suffered a head injury at

all, which means they lose the opportunity to effectively prevent possible complications. Public awareness of TBI symptoms is low, especially mild TBI, but the consequences of mild TBI's can be significant and long lasting."

Feigin is looking forward to researching the long-term consequences of TBI across all ages, exploring new strategies for reducing TBI burden, and strengthening collaborations with leading national and international centres of excellence in TBI research.

"This research project has put AUT on the map as the leading academic centre of TBI epidemiological research internationally. That is a significant benefit for the university's research reputation and for our ability to generate external funding in the future."

The BIONIC study was based in Hamilton, and completed in collaboration with academics from the University of Auckland, Waikato University and University of Otago. It attracted \$3 million of funding from the Health Research Council. The main findings of the study have been published in *The Lancet Neurology*, a top-ranked international medical journal. The other main new papers are also expected to be published in top-ranked international journals over the next two years.



## A focus on teleworking

There is still little hard data about the phenomenon of working from home. But by the end of October much more should be known about the extent of teleworking in New Zealand and Australia and the terms and conditions teleworkers toil under.

Professor Tim Bentley, head of AUT University's Work Research Institute, is leading a trans-Tasman telework study in collaboration with Melbourne University's Institute for Broadband Enabled Society (IBES).

"Many major public and private sector organisations are involved so this will be an important study – the first national study in New Zealand and Australia of teleworking," says Bentley, who works from home himself one or two days a week.

It's estimated up to half of people in advanced countries could telework, Bentley says, but surveys suggest only about 10 per cent do.

"There's a lack of understanding about it. It happens a lot informally yet when you ask organisations if they do it they say no. But we all know people who work from home even if they

don't have anything in their contract that says they can."

"The important thing is productivity, not how many hours you're sitting at your desk. A lot of people are at their desk and not actually doing anything productive. So it's output and quality, not where you are when you're doing it, that matters."

The research, which has been commissioned by computer network equipment-maker Cisco, will not be a "cheerleading" study for telework. "It will be a critical study of whether teleworking really is productive and how it affects worker wellbeing. We're not doing advocacy research – we're doing robust, high-quality research that is informed by academic models and theory.

"We're interested in things like how do management attitudes affect whether or not people can telework. What we suspect from the literature and what we know from talking to people already is that there is a certain amount of reluctance by managers who like to be able to monitor people's work and productivity."

The study will delve into grey areas such as health and safety of home offices, whether employers or employees are paying to equip them and whether teleworkers are affected by social isolation.

"We work long hours in New Zealand and the more flexibility workers and organisations have the better from that point of view. But I wouldn't like teleworkers to become second-class citizens of the workplace, to become a vulnerable part of the workforce," Bentley says.

By Anthony Doesburg



## Business school opens doors for students

An AUT Business School initiative giving students access to the world of business was so popular with secondary schools that organisers had to turn some schools away.

Shadow a Leader day, held this year on 10 July, teams Year 13 students with AUT students and key business leaders. The leader then spends the day giving his or her students a tour of how the business world works, and taking them to meetings, presentations and discussions. There are opportunities for students and business leaders to mingle as a group, including a breakfast and lunch session for all participants. After a successful inaugural event in 2012, the Business School is growing the 2013 event to 50 teams of three.

This year's leaders include Sue Watson (Global Chief Executive, Kiwi Expats Abroad), Carly Robinson (Group General Manager, Fonterra), Tim Bennett (CEO, NZX), Sean Hughes (Chief Executive, Financial Markets Authority) and John Dalzell (Chief Executive, Waterfront Auckland).

For more information please contact Annie Gander, Business Relations Manager, Faculty of Business and Law: [annie.gandar@aut.ac.nz](mailto:annie.gandar@aut.ac.nz)

## 2013 Business Support Awards extends reach

Finalists in the 2013 AUT Excellence in Business Support Awards have been announced, with a new category Export Services bringing the tally of contenders to 42.

Dean of AUT Business School Dr Geoff Perry said: "As a Business School, it's important for us to celebrate the businesses that contribute to the economic development of our region, so that together, we can continue to add value to the changing world of business."

Winners will be named at a gala dinner at the Langham Hotel on 5 September, with the Supreme Award chosen from winners in each category.

AUT alumni are welcome to attend the dinner where they can mingle with business educators and leaders. For information about tickets to the dinner email [awards@aut.ac.nz](mailto:awards@aut.ac.nz)



# New developments in tertiary education and the role of IT

The ICT Services' 'Visioning day' continues to grow each year. Held recently in the Sir Paul Reeves Building, the 2013 event was attended by around 140 people, including both AUT staff and representatives from the university's technology partners, including MicroSoft, Vodafone, REANNZ and Cyclone.

Two international key-note guest speakers presented; Richard Northam, CEO of CAUDIT (Council of Australian University Directors of IT) and board member of EDUCAUSE, and Jim Spohrer, Director, Global University Programs at IBM who joined us via video link from San Jose, California.

Both speakers addressed the theme of the day, 'New developments in tertiary education and the role of IT'. Richard Northam spoke about developments in MOOCs (Massive open online course) delivery internationally, and outlined some strategies for tertiary providers in response to current MOOC trends. Jim Spohrer spoke of the increasing importance of tertiary education, big data and of current innovations addressing infrastructure issues which are creating 'smart cities'.

Speakers from AUT included Deputy Vice-Chancellor, Professor Rob Allen, ICT Services Group Director, Liz Gosling and Head of Strategic Developments, Jenny Bygrave.

Dr Stanley Frielick introduced CFIaT (Centre for Learning and Teaching) students working on the LATTE (Learning and Teaching Technology Enablers) initiative. Students working as LATTEs have been providing assistance to staff learning

how to incorporate new technologies such as iPads and other tablet devices into their current ways of working.

The AUT student voice was heard through a student-made video and through a presentation given by Nathan Bromberg and Nick Buckby from AUSM. The video, commissioned by Liz Gosling, was made by students from the School of Communication Studies (Faculty of Design and Creative Technologies). The students worked to a brief, delivering several storyboarded ideas, one of which was selected. The resulting video provided not only an effective means of communicating the student message to staff, but also reminded those present of the students' dependency on technology for learning, and very impressively displayed the students' high levels of expertise in using the technologies provided. A key message was the extent to which students are reliant on connectivity to the AUT network, either via WiFi using their own devices or through the cabled network. Of equal importance is students' need to connect with classmates engaged in collaborative projects via mobile networks, which highlighted the additional costs students face in today's technological environment,

both on and off-campus. Key messages from the presentation from AuSM supported the message about students' reliance on technology and also highlighted the impacts of recent outages on our AUT students. Acknowledgement by the AuSM representatives of efforts by AUT and by ICT Services to address issues raised by students in the previous Visioning days was well received.

The Wrap-up Session was in the form of a Panel 'Q & A' session with members of the ICT Strategic Steering Committee: Rob Allen, Pare Keiha, Desna Jury, Lyle Williams, Tony Clear, Liz Gosling.

Round table workshops were included in several slots during the day's proceedings, with interesting discussions and feedback provided by the various combinations of ICT Services staff, the wider AUT staff and AUT's technology partner participants. Themes which have emerged from these discussions include developing opportunities for partnering with industry to provide support for student start-ups and to address skill shortages, IT consultancy and support services for staff who are investigating or using new technologies, as well as many other ideas around learning and teaching and about planning for the future needs of the university through leveraging advances in technologies. This feedback, from both University staff and from our technology partners, will be collated and distributed to Visioning Day attendees and will be used to inform the next ICT Services strategic plan.



## Cash for Clams

AUT researcher Associate Professor Lindsey White has spearheaded research which could see a \$300 million boost to New Zealand's fisheries.

The Head of AUT's School of Interprofessional Health Studies, Dr White's research revealed that New Zealand's surf clam stocks are much greater than previously thought, large enough to support huge growth of the sub-tidal surf clam fishery.

Dr White's research team, including

AUT Masters student in Applied Sciences Glenn Farrington, was initially contracted to conduct the research for commercial clam quota holder, Cloudy Bay Clams Ltd. The research has prompted the Ministry of Primary Industries (MPI) to review quotas for surf clams in an area which stretches from Taranaki to Kapiti on the East Coast of the North Island.

"Quotas in this area were around 75 tonnes per year but our research suggested this could be increased to 2,984 tonnes, potentially adding more than \$30m per annum to this country's already lucrative seafood export industry," says Dr White.

The Ministry has since increased the quotas to the levels recommended by



## Green IT – New benchmark for sustainability

In a recent benchmarking survey, undertaken by CAUDIT, (Council of Australian University Directors of Information Technology), AUT's IT sustainability performance was ranked against a group of 44 universities across Australia and New Zealand.

AUT scores above average in two of the KPIs; for server virtualisation and environmental disposal, and is slightly below average in the two KPIs related to power usage and efficiency within the Data Centre facility, and is below in the Electronic Product Environment Assessment Tool (EPEAT) scores.

EPEAT is a comprehensive rating scheme which includes information on emissions and waste produced in the production process to identify greener computers and electronic equipment. Devices carrying the EPEAT Gold rating meet a clear and consistent set of performance criteria to reduce environmental impact throughout its life cycle. AUT's score is a reflection of the fact that many of our computers are "white boxes" built in New Zealand, and therefore have not been rated against the EPEAT standards. A decision was made last year to move away from white box products to products from multi-national technology companies, who will conform to EPEAT standards. AUT's score will improve considerably in the next two years.

ICT Services is an essential player in the university's commitment to sustainability, particularly the financial and environmental aspects. While sustainability has been an underlying consideration in all ICT Services projects, it is now placed as one of the key drivers for some major initiatives currently on the AUT technology landscape.

AUT printing services will be reviewed during 2013 with sustainability goals forming part of the requirements for the planned system overhaul. With the current lease cycle for the multi-functional printers (MFPS) coming to an end, an opportunity exists for a fully managed print service which would include not only the MFPS, but also hundreds of Single Function Printers (SFPs) which currently are not part of the AUT printing network. Through a managed printing service, printing costs to the university can be reduced, and the university can manage more effectively the environmental impact of

AUT's print activities.

Mobile phone recycling is offered to staff at AUT through the Starship Phone Challenge. This year, the Starship mobile phone recycling programme is being highlighted during the month of June. AUT is taking part in this initiative, with additional recycling collection points being made available across the university.

The staff purchasing of additional mobile devices is becoming a potential sustainability issue for many universities, AUT included.

Some staff now have three different mobile devices; a laptop computer, a tablet/ iPad, plus a smart phone, all of which need to be supported by the university. The need for universities to manage sensitive information on mobile devices, make standard services available to staff across a multitude of device platforms plus support an increasingly diverse range of devices requires an unsustainable commitment of IT resource. Currently ICT Services are working to provide staff with the information required to make appropriate purchasing choices which will allow the university to continue provisioning of services through various end-user devices as well as manage resources within sustainable parameters.

ICT Services have been working with the Vice-Chancellor's Sustainability Taskforce to include Green IT recommendations in the University's Sustainability Strategy document, which is due to be finalised later in the year.



Green IT – New benchmark for sustainability

Dr White's team.

A survey was carried out by the team late last year to determine how many clams (biomass) are on the Manawatu Coast. The survey determined the biomass of the four main species of surf clam in this area: the deepwater tuatua, large trough shell, ringed dosinia and triangle shell. With these four species combined, they found close to 400g of clams per square metre across this area, compared to just 21g per square metre found in the same area in 1995. This huge difference is due to the highly efficient sampling technology used in Dr White's work.

Dr White's team, along with Cloudy Bay Clams and the other 66 quota holders, are keen to ensure that this industry grows

in a sustainable manner which perfectly marries up with MPI's objectives for developing fisheries involving maximising yield while maintaining the stock size to ensure sustainability of the spawning stock.

"The numbers of surf clams can vary significantly in an area over a short time frame so it can be hard to work out what a sustainable catch is. They also play an important role in the coastal marine food web," Dr White says.

Thanks to Dr White's research and the new quota, there is growing opportunity to develop surf clam fisheries in New Zealand. Dr White expects this will provide additional return to the local fishing sectors through increased employment of additional crew, processing of landed surf

clams, and other benefits to the economy.

"This increase in quota for the Manawatu area is just the beginning of our research. A mature clam industry in New Zealand could exceed 20,000 tonnes per annum. While this seems a lot, there are clam fisheries in other countries that have been sustainably harvesting up to 100,000 tonnes each year for decades. Given that these clams retail for NZ\$15-25 per kilogram, export returns of \$300-400m could be realised.

"This is one of the last untapped high-value fisheries in New Zealand. The clams taste great, fetch a very high price and there are huge stocks of them, buried in the sand, just behind the surf zone on virtually all of New Zealand's high energy sandy beaches."



# AUT hosts top international artists at Triennial



This work is by Shahzia Sikander, who is one of two international artists exhibiting at ST PAUL ST Gallery.

AUT's involvement with the 5th Auckland Triennial involves staff, students and spaces.

AUT's ST PAUL St Gallery is displaying work from two world acclaimed artists and more than 100 AUT students will exhibit their work as part of the Triennial at the Auckland Art Gallery in July.

AUT Vice Chancellor Derek McCormack at the official opening of the ST PAUL St Gallery opening said it was a great opportunity for AUT to support the creative sector in Auckland.

"Triennial's focus on contemporary art and innovation is a perfect association for us. It ties in well with our focus on preparing graduates who are creative practitioners," says McCormack.

Ho Tzu Nyen and Shahzia Sikander are the two artists displaying their work at ST PAUL St Gallery. Tzu Nyen from Singapore is a multi-disciplinary artist interested in the construction of history and the relationships between still, moving and painted images.

Pakistani-born American artist, Shahzia Sikander is best known for her experimentation with the formal constructs

of Indo-Persian miniature painting.

The 2013 Triennial is being led by one of the most renowned and highly regarded curators working globally today, Hou Hanru. Originally from China, Hanru spent 16 years living in Paris curating exhibitions throughout the world, before moving to San Francisco in 2006.

He said AUT's ST PAUL St Gallery working with the other eight other venues across Auckland has been a 'wonderful collaboration'.

"I hope the Triennial can bring opportunities to education programmes expanded to contemporary international art, experience for students

"Art can be a part of the education for students," he says. "It opens up different perspectives related to political and social issues that impact people's lives."

AUT's other involvement with the Triennial was an exhibition project in the Auckland Art Gallery.

Over 80 artists associated with AUT (staff, students and alumni) worked on a project called Transforming Topographies. The exhibition project showed 32 different projects throughout its run of three weeks.

AUT School of Art and Design staff members Elvon Young, Monique Redmond, Emily O'Hara, Lars Jerlach and Dieneke Jansen were project leaders.

Ko te wai Maori he taonga tuku iho, kaaore he take tua atu i tenei; ki te kore te wai, matemate katoa tatou. No hea tenei kupu? Ma ori - 'ma ori ori'. i heke mai te wai te rangi, i a Ranginui, ki runga i a Papatuanuku.

Freshwater is a treasure that has been passed down to us, there is no more important issue: if there is no water, we all die. Where does this word 'Ma ori' come from? It encapsulates the continual descent of water from Ranginui, the Sky Father, to Papatuanuku, the Earth Mother

Source: Watercare Auckland Regional Water Demand Management Plan, 2011.

## Water Harvesting at AUT

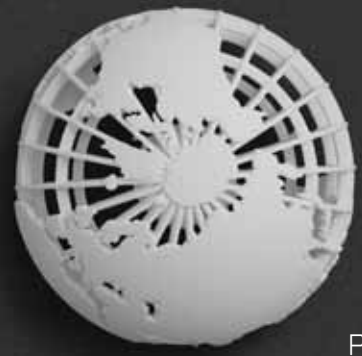
AUT has been harvesting rainwater for beneficial use at our North Shore campus since 2009.

Harvesting rainwater supports the target in Watercare's Auckland Regional Water Demand Management Plan for a 15% reduction in gross per capita mains water consumption by 2025. Water is collected from the roofs of AF and AJ buildings and fed into water harvesting tanks that are located underground. Together the tanks can hold 44,000m<sup>3</sup> of rain water. The water that is collected from the roofs is used for flushing the 22 toilets in AJ and AF buildings. Supplementary water metering has been installed in the AJ building which has enabled

us to record that we have saved over 190,000 litres of water in that building alone over the last 12 months.

One of AUT's Maintenance Officers, Niven Winder, has been recording monthly rainfall data at the North Shore Campus since 1997. The data shows that over the past few years there have been changes in rainfall patterns leading to an increase in the number of months that the rainfall exceeds 200 mm per month in each year.

The rain water harvesting tanks are contributing to reduce this peak pressure on the stormwater network and the amount of water that is going to stormwater. As well as of course reducing the demand and cost for mains water.



## Axis Award for Ad Grads

AUT advertising graduates Jordan Dale (BCS Ad Creativity 2012) and Ryan Worsfold (Grad Dip Ad Creativity 2012) won the TVNZ student award at the CAANZ Axis Advertising Awards in May.

The pair worked on a Beurepaires rebrand fitted for TVNZ content.

"It was good going up on stage and everyone from the industry seeing my name on the big screen because it shows industry people that I can produce award-winning work," says Dale, who also found the awards event a great opportunity



to network with potential employers.

Since winning the award he has taken up a work placement with WHYBIN\TBWA, while Worsfold has returned to study.



Jordan Dale (BCS Ad Creativity 2012) and Ryan Worsfold (Grad Dip Ad Creativity 2012)

## Music, art and beer

Third-year AUT graphic design and illustration student Kelsen Findlay has won a competition to have his work featured as a Beck's 'art label'.

Findlay designed the winning beer bottle label in response to a public brief by Beck's, part of its 'Music Inspires Art' series. His mystical depiction of two mountains represents the two worlds of music and art coming together.

Making some connections in the design industry has been a positive spin-off from entering the competition, says Findlay. He plans to put his prize of \$2000 cash and \$2000 worth of art supplies towards getting to London to complete an internship after he graduates.

## Institute for Applied Ecology NZ relaunches

AUT's Institute for Applied Ecology NZ (formerly the Institute of Earth and Oceanic Sciences) relaunched at the end of May with a new Director. Professor Steve Pointing, also new to the university in 2013, heads up the institute and says he plans to make it New Zealand's foremost science and ecology research centre. "We have considerable strengths in areas that have high immediacy to environmental health in New Zealand and worldwide. Our strategy is to focus on 'big picture' research, and we are rapidly making a name for ourselves as the 'go to' organisation for applied ecological solutions".

The new institute will focus on four core areas of research:

- Aquaculture and fisheries; with a particular focus on NZ-unique shellfish products such as the surf clam and geoduck

- Bioactive compounds; discovery and application of natural compounds with therapeutic use, specifically those of marine origin
- Applied conservation; the development of novel conservation monitoring technologies, and integration of social and environmental concepts in conservation
- Global change ecology; investigating the biological feedbacks that occur in a changing world, and predicting impacts of climate change scenarios

